

HVAC DESIGN DATA													
DESIGN CONDITIONS	SUMMER					WINTER					LOWEST AVERAGE ANNUAL DEWPOINT		
	TEMP		WET BULB TEMP		% HUMIDITY	TEMP		DEWPOINT TEMP		% HUMIDITY			
	°F	[°C]	°F	[°C]		°F	[°C]	°F	[°C]				
	INDOOR AREA DESIGN CONDITIONS												
OUTDOOR DESIGN CONDITIONS	86	[36]	78	[26]		-10	[-23]	-10	[-23]	NA			
CONFERENCE	75	[24]	NA		60	70	[21]	NA		20	4		
CORRIDOR	75	[24]	NA		60	70	[21]	NA		20	4		
OFFICE	75	[24]	NA		60	70	[21]	NA		20	4		
TOILET	77	[25]	NA		60	70	[21]	NA		20	10		
DRY LABORATORIES	75	[24]	NA		60	70	[21]	NA		20	6		
COMPILING ROOM (LABS)	75	[24]	NA		NA	70	[21]	NA		NA	6		
CLEAN UTILITY/STORAGE ROOM	NA		NA		NA	NA		NA		NA	4		

[illegible][illegible]

STEAM HUMIDIFIER SCHEDULE																			
MARK	LOCATION	SYSTEM AND/OR SERVICE	HUMIDIFIER TYPE	AIR FLOW [L/S]	# OF MANIFOLDS	EAT						LAT		STEAM			TRAP		REMARKS
						DB		WB		DEWPOINT		SOURCE	PRESSURE VALVE	PRESSURE HEATER	FLOW	CONTROL TYPE	CAPACITY		
						°F	°C	°F	°C	°F	°C							°F	
1-SHT	MCH ROOM	AHU-AC-30	UNIT MOUNTED DISPERSION TUBE	8,000 [3900]	1	60 [16]	50 [10]	39.59 [4]	59.31 [15]	STEAM	30 [210]	30 [210]	202.86 [92]	PLAN-M-400	203 [92]			1, 2	


FAN SCHEDULE																								
MARK	LOCATION	AESA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	AIR FLOW		TSP		FAN						MOTOR ELECTRICAL						CONTROL SEQUENCE	REMARKS			
				CFM	[L/s]	IN	[Pa]	TYPE	WHEEL	CLASS	ARRANGEMENT NOTATION AND DISCHARGE	DIAMETER		MIN % EFF	DRIVE	FAN MAX RPM	NOMINAL POWER		PHASE			VOLT	RPM	SPEED CONTROL
												IN	[mm]				EFF	BHP						
SR-30	MECH ROOM	6TH FLOOR RESEARCH BUILDING 11A LAB 104	AHJ-AFC-30	8000	[3800]	6.85	[1700]	PENNUI FAN	DRAW THRU	I	91%	BELT	2801	14.8	15	[11]	3	460	1800	VARIABLE	PAN-M-500	1, 2, 3		
EF-30	MECH ROOM	6TH FLOOR RESEARCH BUILDING 11A	EF-30	8000	[3800]	2.25	[560]	CENTRIFUGAL	IN-LINE	39	82.5%	BELT	1118	3.79	5	[4]	3	460	1800	VARIABLE	PAN-M-500	1, 2		

[illegible]

CHILLED WATER COOLING COIL SCHEDULE																														
MARK	LOCATION	AREA AND/OR BLDGS SERVED	SYSTEM AND/OR SERVICE	AIR FLOW CFM	MAX FACE VELOCITY FPM	APD			EAT				LAT				TOTAL CAPACITY MBH	SENSEBLE CAPACITY		CHILLED WATER				REMARKS						
						N W G	P a l	D b	W b	D b	W b	M B H	M B H	FLOW		E W T		L W T	F T	W P D										
														° F	° C						° F	° C	° F		° C	G P M	U / S	° F	° C	° F
1-CW-C-1	MECH ROOM	8TH FLOOR RESEARCH LAB BUILDING 11A	1-4HV AC-30	25800	[17000]	482.3	[3]	14	[350]	95	[35]	78	[26]	55.5	[13]	55.5	[13]	637.3	[190]	341.1	[100]	14.2	[3]	42	[6]	52	[11]	14.5	[4]
NOTE																														
FOR COOLING COIL FIN SPACING SHALL NOT EXCEED 132 FINS PER FOOT (140 FINS PER METER).																														

HOT WATER HEATING COIL SCHEDULE																										
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	APPLICATION	AIR FLOW		MAX FACE VELOCITY		APD		TEMPERATURES				TOTAL MIN CAPACITY	HOT WATER				% GLYCOL	REMARKS					
					CFM	[L/s]	FPM	[M/S]	IN WG	[Pa]	°F	°C	°F	°C		MBH	[kW]	GPM	[L/s]			°F	°C	°F	°C	FT
1-HWC-1	MCH ROOM	1TH FLOOR RESEARCH LAB BUILDING 1A	1.4HJ AC-30	PREHEAT	8000	[300]	482.3	[3]	0.2	[50]	-10	[-23]	74.4	[24]	728.7	[250]	81.1	[5]	180	[82]	160	[71]	4.2	[1.3]	40	...
1-HWC-2	MCH ROOM	1TH FLOOR RESEARCH LAB BUILDING 1A	1.4HJ AC-30	HEAT	8000	[300]	500.8	[3]	0.15	[38]	53	[12]	83.5	[29]	263.9	[800]	27.3	[2]	180	[82]	160	[71]	1.3	[4]	40	...

EXHAUST HOOD SCHEDULE												
MARK	LOCATION	SYSTEM AND/OR SERVICE	TYPE	APPLICATION	THROAT SIZE		AIR FLOW		DAMPER TYPE	REMARKS		
					IN	[mm]	CFM	[L/s]			IN	[Pa]
PENTHOUSE ROOF		1-57-30	EXHAUST	GENERAL SPACE EXHAUST	300x6	[1900 x 1900]	8000	[2800]	0.13	[13]	MODULATED DAMPER	4" ROOF CURB
								[]	[]			

Drawing Title MECHANICAL EQUIPMENT SCHEDULES	Project Title REPLACEMENT OF AHU AC-30 IN BUILDING 11A		Project Number \$37-10-122		Office of Construction and Facilities Management
	Location 820 S. DAMEN AVE CHICAGO, IL 60612		Building Number BUILDING 11A		
Approved Project Director	Date 1/26/2013	Checked YW	Drawn YW	Drawing Number 11B-M-700	
				Dwg. 07 of 10	
 Department of Veterans Affairs					